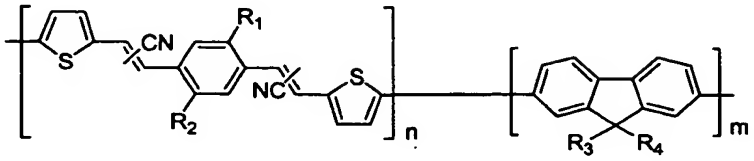
What is claimed is:

1. A light-emitting copolymer represented by the following formula 1:

Formula 1



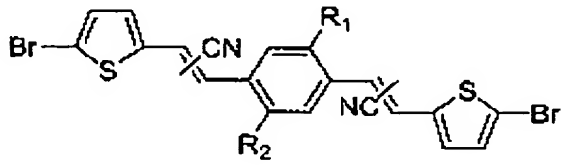
wherein R_1 and R_2 represent silyl groups, alkyl groups or alkoxy groups; and R_3 and R_4 represent alkyl groups.

2. The copolymer as defined in claim 1, wherein R_1, R_2, R_3 and R_4 contain C_1 to C_{22} linear or branched alkyl groups.

3. The copolymer as defined in claim 1, wherein a ratio of n/m ranges from 17.5/82.5 to 1.4/98.6.

4. A comonomer represented by the following formula 2

Formula 2



wherein R_1 and R_2 represent silyl groups, alkyl groups or alkoxy groups.

5. The comonomer as defined in claim 4, wherein R_1 and R_2 contain C_1 to C_{22} linear or branched alkyl groups.

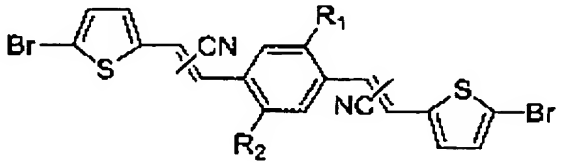
6. An electroluminescence device comprising a polymer light-emitting layer formed with the light-emitting copolymer of any one of claim 1.

7. The device as defined in claim 6, wherein the device is a multi-layer film structure comprising a semitransparent electrode, a hole transporting layer, the polymer light-emitting layer, an electron transporting layer and a metal electrode successively laminated on a substrate.

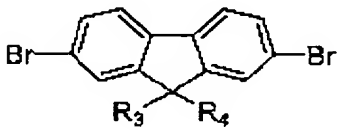
8. The device as defined in claim 6, wherein the polymer light-emitting layer is formed by blending the light-emitting copolymer with an electron or a hole transporting polymer.

9. A method of preparing the light-emitting copolymer of claim 1, comprising the step of copolymerizing a monomer represented by the following formula 2 and another monomer represented by the following formula 3 in the presence of nickel(0) catalyst:

Formula 2



Formula 3



wherein R_1 and R_2 represent silyl groups, alkyl groups or alkoxy groups; and R_3 and R_4 represent alkyl groups.

10. The method as defined in claim 9, wherein R_1, R_2, R_3 and R_4 contain C_1 to C_{22} linear or branched alkyl groups.

11. The light-emitting copolymer poly{[9,9-bis(2'-ethylhexyl)fluorene]$_m$-[2,7-diyl-co-2,5-bis(2-thienyl-1-cyanovinyl)-1-(2'-ethylhexyloxy)-4-methoxybenzene-5",5"-diyl]$_n$}.

12. The copolymer as defined in claim 11, wherein a ratio of n/m ranges from 17.5/82.5 to 1.4/98.6.

13. The comonomer 2,5-bis-{2-(4-bromothienyl)-1-cyanovinyl}-2-(2-ethylhexyloxy)-5-methoxybenzene.

14. An electroluminescence device comprising a polymer light-emitting layer formed with the light-emitting copolymer of claims 13.

15. The device as defined in claim 14, wherein the device is a multi-layer film structure comprising a semitransparent electrode, a hole transporting layer, the polymer light-emitting layer, an electron transporting layer and a metal electrode successively laminated on a substrate.

16. The device as defined in claim 15, wherein the polymer light-emitting layer is formed by blending the light-emitting copolymer with an electron or a hole transporting polymer.